

REMARKS

Reconsideration in view of the foregoing amendments and following remarks is respectfully requested.

Applicants authorize the Examiner to make the necessary Examiner's amendments to correct the misspellings on pages 12, 13, 15, 17 and 18.

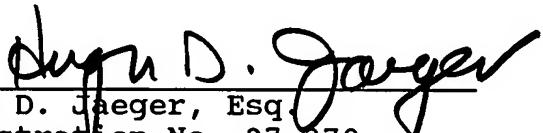
Claims 2-16 have been rewritten to overcome the rejection(s) under 35 USC 112, 2nd paragraph.

If there are any further issues yet to be resolved to advance the prosecution of this patent application to issue, the Examiner is requested to telephone the undersigned counsel.

Reconsideration and allowance is respectfully requested.

Respectfully submitted,

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Attachments: Specification pages 12, 13, 15, 17 and 18

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[0032] FIG. 2 is an exploded rear view showing the alignment of the major structural components of the electronic display module having a four-point latching system 10 including the main housing 12, the LED display panel 18, the louver panel 16 and the driver board 14. The mounting panel assembly 39 to which the electronic display module having a four-point latching system 10 aligns and attaches is also shown. The mounting panel assembly 39 includes a series of vertical plates connected to a series of horizontal plates, of which only vertical plates 39a and 39b and horizontal plates 39c and 39d are shown. Tabs 41 are provided at the junctions of the vertical plates and the horizontal plates, and each tab is provided with an alignment hole 43. Additionally shown are pluralities of body holes in the LED display panel 18, the main housing 12, the driver board 14, and the mounting panel assembly 39. The LED display panel 18 includes a plurality of body holes 46a-46e placed as shown, the majority of which are near the periphery of the LED display panel 18 for accommodation of the plurality of louver panel attachment pins 40a-40e of the louver panel 16, as well as including a plurality of connectors 48a-48n which connect to corresponding connectors 50a-50n (FIG. 3) on the driver board 14. Access holes 52 and 54 in the LED display panel 18 for accessing the actuator gear 34 are also shown. Correspondingly, access holes 56 and 58 are also provided in the louver panel 16 for accessing the actuator gear(s) 34 through access holes 52 and 54 in the LED display panel 18. The driver board 14 includes a plurality of body holes 60a-60d for accommodation of the plurality of driver board attachment pins 42a-42d and a centrally located body hole 62 for the accommodation of the louver panel attachment pin 40e. Each

latch housing 24a-24d includes a body hole 64 (FIG. 4) for accommodation of the louver panel attachment pins 40a-40d. A body hole 66 is also located central to the panel 22 for accommodation of the louver attachment pin 40e. The panel 22 also includes four cutouts 68a-68d for accommodation and connection of connectors 48a-48n and 50a-50n therethrough.

5 [0034] FIG. 4 is an isometric exploded view of the components comprising the latch mechanism 20a and associated components including, but not limited to, those components essential for the operation of one or more of the latch mechanisms 20a-20d. The main components included are the latch 26, the latch housing 24a, a latch lock plate 70, the actuator arm 32, a linkage 72, the actuator gear 34, and the gear support housing 36.

10 [0035] With reference to FIGS. 4 and 5, the latch 26 is now described. The latch 26 is made in one piece and includes upwardly curved and opposed outboard and inboard latch arms 28 and 30, respectively, connected in common at one end by an integral attachment fixture 74 and separated by an interlatch space 76. The outboard and inboard latch arms 28 15 and 30 also extend to include radiused curves 78 and 80 and to include planar bottom surfaces 82 and 84. The attachment fixture 74 is comprised of a central attachment fixture 74a, an outboard attachment fixture 74b, and an inboard attachment fixture 74c. The central attachment fixture 74a includes a 20 slot 92 for snap engagement with a rounded crossmember pivot bar 73 connecting links 75 and 77 of the linkage 72. Slots 86 and 88 are located between the central attachment fixture 74a and the outboard and inboard attachment fixtures 74b and 74c for accommodation of members of the linkage 72. Slots 85 25 and 87 are included in the outboard and inboard attachment fixtures 74b and 74c facing the slots 86 and 88, respectively. Geometry adjacent the slots 86 and 88 opposing the attachment fixture 74 in the form of slots is provided for accommodation and snap engagement of externally located pivot pins 81 and 83 30 extending outwardly from the links 75 and 77, as shown in FIG. 5. A recess 90 (FIG. 5), which can be radiused, is

located guide body 104 and the louver pin receptor post 108 for accommodation of the outboard latch arm 28 and the inboard latch arm 30 of the latch 26, as shown in FIG. 6. The opening 113 (FIG. 7) facing the opposing latch housing 24b is included between the outboard sidewall 100, the inboard sidewall 102, and the top walls 106a and 106b and the guide body 104 to accommodate one end of the latch 26, the linkage 72, and one end of the actuator arm 32, as shown later in detail.

[0037] The latch lock plate 70 frictionally engages and secures to a cutout 116 (FIG. 9) which is formed in part by the junction of the panel 22 and one edge each of the outboard and inboard sidewalls 100 and 102 and other edges adjacent thereto which form a cavity 118 in conjunction with the latch housing 24a. Outboard and inboard retainer bars 120 and 122, respectively, extend from the edges of a main panel 114 of the latch lock plate 70 to assist in forming an outboard slot 127 (denoted by dashed lines in FIGS. 8 and 12) and a corresponding and opposed inboard slot 129 (FIG. 8) in conjunction with the outboard and inboard configured cavities 124 and 126 (FIGS. 9 and 10). As shown in FIG. 12 and in respect to the outboard slot 127, the outboard retainer bar 120 occupies only a portion of the outboard configured cavity 124 leaving the unoccupied portion vacant to form the slot 127. The outboard slot 127 slidingly accommodates the outboard post 96 of the latch 26. Accordingly, the inboard retainer bar 122 occupies a portion of the inboard configured cavity 126 to form the inboard slot 129 opposing the outboard slot 127 to slidingly accommodate the inboard post 98 of the latch 26. One end of the main panel 114 includes a cutout 128 flanked by retainer catches 130 and 132, and the opposing end

of the main panel 114 includes retainer catches 134 and 136. The retainer catches 130, 132, 134 and 136 secure within the cutout 116 to secure the latch lock plate 70 to the panel 22. The cutout 128 accommodates the louver pin receptor post 108.

5 [0038] The actuating arm 32 includes an actuator arm main body 138 having an attachment fixture 140, which can be tubular, and an actuator arm gear receptor 142 oriented 90 degrees about the centerline of the actuator arm main body 138. A plurality of gear receptor cavities 144a-144n are located along the actuator arm gear receptor 142 for engagement with the actuator gear 34. A pivot hole 146 in the attachment fixture 140 slidably engages and accommodates pivot pins 94 and 95 of the linkage 72 to attach the attachment fixture 140 of the actuator arm 32 to one end of 10 the linkage 72, the rounded crossmember pivot bar 73 of the linkage 72 snappingly engages the slot 92 of the latch attachment fixture 74, and the slots 85 and 87 of the latch 26 snappingly engage and are accommodated by the pivot pins 81 and 83 of the linkage 72, thereby flexibly linking the 15 actuator arm 32 to the latch 26. It is to be noted that one end of the linkage 72 is accommodated by the slots 86 and 88 adjacent to the central attachment fixture 74a.

20 [0039] The actuator gear 34 includes opposing shafts extending centrally from a gear 150. One shaft 152 includes 25 surfaces, such as hexagonally arranged surfaces, suitable for manual operation or operation by a suitable tool. The shaft 152 is accommodated by a support hole 154 shown extending through a central panel 156 of the gear support housing 36. The opposing shaft 158 is accommodated by a 30 support hole 160 (FIG. 7) located on the panel 22 between the opposing latch housings 24a and 24b. The shaft 158 includes